

PI 1000Y /PI 1125Y

POWERED BY

Industrial Generating Set

MODEL rpm /	Hz VOLTAGE	PRIME ⁽¹	¹⁾ STANDBY ⁽²⁾
PI 1000Y /PI 1125Y 1800		1000kVA /800I	
ull rated power available upto 100 ı am.	neter elevation at ambient of 27degC,	for other temperature and al	ltitude limits please consult application
NGINE SPECIFICATION	S	FUEL SYSTEM	
Rated Output (PRP) ⁽¹⁾	900 kW _m	Fuel Filter:	
Rated Output (ESP) (2)	990 kW _m	Recommended Fue	el Class A2 Diese
Engine Make & Model	Yuchai YC6TH1350-D33	Fuel Consumption	Standby 265.4 L/hr
No. of Cylinders	6, Vertical, in-line	Fuel Consumption 1	00% PRP 237.9 L/hr
Cycle	4 Strokes	Fuel Consumption 7	25% PRP 175.2 L/hr
Aspiration	Turbocharged, water-air intercooled	Fuel Consumption 5	0% PRP 123.4 L/hr
Cooling Method	Water	EXHAUST SYSTEI	M
Governing Type	Electronic governor	Muffler Type	Residential
Governing Class	ISO 8528 G2	Max. Back Pressure	e 10 kPa
Compression Ratio	14:01	Exhaust Gas Flow (F	PRP/ESP) 182.8 / 199.8 m ³ /r
Displacement	28.14 L	Exhaust Gas Temperature(PRP/I	ESP) 550°C/550°C
BorexStroke (mm)	175×195mm	ALTERNATOR SPECIFICATIONS	
Battery and Charger Alternat	or 24 V	Rated Output (Prim	ne) ⁽¹⁾ 1250 kVA
		Rated Output (Stan	ndby) ⁽²⁾ 1376 kVA
Air Filter Type	Dry-type, filter cartridge of paper	Alternator Make & N	Model Leroy Somer TAL-A49-E
Combustion Air Flow (PRP) 74.2 m ³ /min	Number of Poles	4
Combustion Air Flow (ESP)	80 m ³ /min	Number of Winding	Leads 12/6
Radiator Air Flow	1710 m³/min	Type of Bearing	Single
OOLING SYSTEM		Insulation Class / Te	emp Rise H/H
Total Coolant Capacity (L)	165 L	Efficiency @ Rated	Voltage 95.00%
Water Pump Type	Centrifugal Eng-Driven	Ingress Protection I	Rating IP 23
Radiator Fan Load	37 kW	Excitation System	SHUNT
Heat Radiation to Room (PR	P) 113 kW	AVR Model	R150
Heat Radiation to Room (ES	P) 125 kW	ALTERNATOR OP	ERATING DATA
UBRICATION SYSTEM		Overspeed	2250 r.p.m
Oil Filter		Voltage Regulation	± 1 % NO LOAD < 3.5% NON-
Total Oil Capacity	115 L	Waveform distortion	DISTORTING BALANCEI LINEAR LOAD < 5.0%
Oil Pan	105 L	Radio Interface	BS EN 61000-6-2 & BS EN 6100 4,VDE 0875G, VDE 0875N
	40 in summer; 10W-30 or environmentally suitable	Cooling Air Flow	1 m ³ /sec

⁽¹⁾ **PRIME POWER RATING (PRP):** PRP is defined as the maximum power which a Generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year. The permissible average power output over 24 hours shall not exceed 70% of PRP unless otherwise agreed by RIC engine manufacturer. An overload capability of 10% of 100% of the prime rated electrical power is permitted for emergency use for a period of 1 hour within 12 hours of operation

⁽²⁾ **EMERGENCY STANDBY POWER RATING (ESP):** ESP is defined as the maximum power available during a variable electrical power sequence, under the stated operation condition, for which a generating set is capable of delivering power in the event of a utility power outage or under test condition for up to 200 Hours of operation per year. The permissible average output over 24 hour of operation shall not exceed 70 % of the ESP power rating noting that no over load is permitted.





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CONTROLLER SPECIFICATIONS						
Controller Make & M	DeepSea 6120 MKII					
Operation Mode	MRS / AMF (optional)					
Display	Graphic Back-lit LCD (128x64) pixles					
Ingress Protection F	IP65					
Binary Inputs/Outpu	8/6					
Analog Inputs	4					
Measurement	Vac, A, Hz, kVA, kW, Vdc					
Event Log Alarms lo		g, Hrs log				
Communication	USB					

ENCLOSURE SPECIFICATIONS							
Enclosure Type Acousti		ic & Weather Proof					
Anticorrosive Protection							
Polyester Powder Coated Galvanized Sheet							
Ingress Protection Rating		IP23					
Lifting	ISO Standard Lifting						
Emergency	External Emergency Push Bottor						
Canopy RAL Color	RAL 2000						
Baseframe RAL Col	RAL 9011						
Noise Pressure leve	86 dB(A)						

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg) Appx	Wet Weight (kg) Appx
OPEN	4810	2620	2125	2125	8600	8900
CLOSE	5900	2500	2850	2000	10900	11000

Note: The following dimensions are for preliminary guidance. For more detailed and accurate dimensions, please refer to the General Arrangement Drawing (GAD).

STANDARD MECHANICAL FEATURES

Genset design provides a low noise level with an optimized performance of the ventilation and exhaust systems at 50 °C ambient temperature.

Robust structure design of Enclosure and Baseframe.

Hevy duty lifting lugs.

Multi doors for easy access & maintenance.

Ingress Protection Rating according to BS EN 60529.

Heavy Duty Baseframe with built-in tank & forklift pockets.

Residential Grade Muffler with rain cap.

OPTIONAL FEATURES

Advanced Controllers are available on request.

4 poles manual / Motorized Circuit breaker

Pre heating system

Static Battery Charger

Critical grade muffler

Electronic governor

Remote Annunciator

Application

Infrastructure, Industrial , Residential , Telecom, Defense , Mining , Aggriculture

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STANDARD ELECTRICAL FEATURES

An advance Control system is designed to provide a comperhensive protection and to monitor the parameters of generating set.

MCCB power circuit breaker.

Battery with charging alternator, cables, and tray.

Sealed harness & high resistant electrical connections.

Fast and accurate protection response.

Generating Set remote start function.

Numeric display with LED. Various languages capable.



ISO